

Device and method for locating mobile station in mobile communication system

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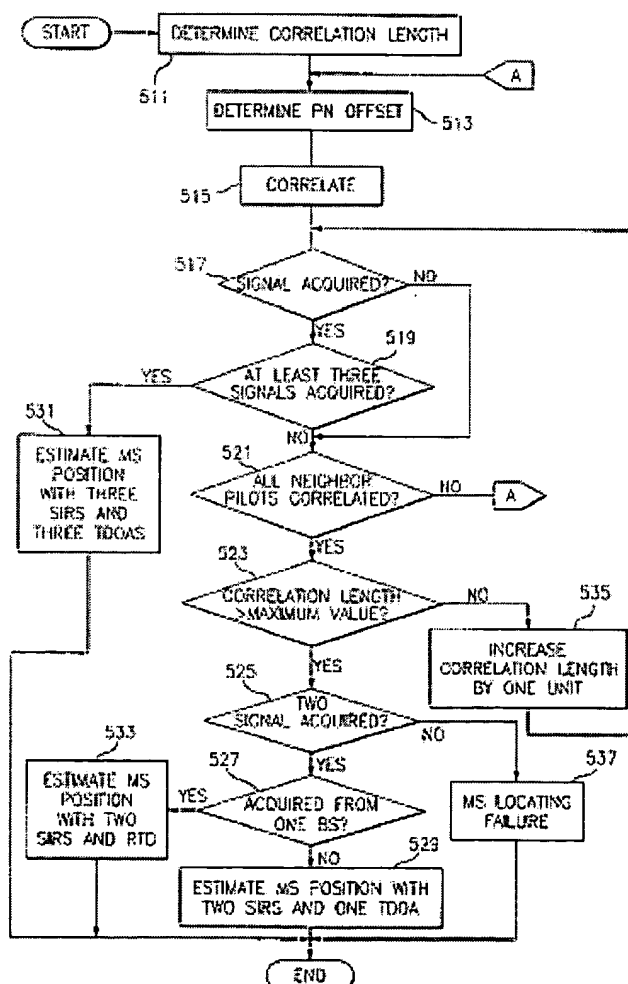
WO0035208 (A1)
 EP1055335 (A1)
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Abstract not available for CN1290458

Abstract of corresponding document: **US6275186**

A device and method for locating a mobile station (MS) in a mobile communication system. In the MS locating device for an MS which receives signals synchronized to a predetermined time from at least one adjacent base station (BS) and is located within a serving BS of the at least one BS, an analog to digital converter (ADC) converts the received BS signals to digital chip sample data, a memory stores the chip sample data, a dedicated searcher detects at least two signals by correlating the chip sample data received from the memory by off-line processing and calculates the signal-to-interference ratios (SIRs) and time difference of arrival (TDOA) of the two signals, and a controller estimates the MS location based on the SIRs and TDOA received from the dedicated searcher.



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